## (19) World Intellectual Property Organization

International Bureau



## 

(43) International Publication Date 20 January 2005 (20.01.2005)

PCT

## (10) International Publication Number WO 2005/004843 A1

(51) International Patent Classification<sup>7</sup>: 47/44, 47/14

A61K 9/107,

(74) Agent: GODDARD, Chris; Frank B. Dehn & Co., 179 Queen Victoria Street, London EC4V 4EL (GB).

(21) International Application Number:

PCT/GB2004/002925

(22) International Filing Date: 7 July 2004 (07.07.2004)

(25) Filing Language:

English

(26) Publication Language:

**English** 

(30) Priority Data:

0302005-4 7 July 2003 (07.07.2003) SE 0302006-2 7 July 2003 (07.07.2003) SE 60/484,664 7 July 2003 (07.07.2003) US

- (71) Applicant (for all designated States except US): NARES AB [SE/SE]; Pilvägen 16, SE-23251 Åkarp (SE).
- (71) Applicant and
- (72) Inventor (for GB only): COCKBAIN, Julian [GB/GB]; 42 Southmoor Road, Oxford OX2 6RD (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): WOLLMER, Per [SE/SE]; Pilvägen 16, SE-23251 Åkarp (SE). ANDER-SSON, Morgan [SE/SE]; Väpplingvägen 18, SE-22738 Lund (SE). GREIFF, Lennart [SE/SE]; Norbergsgatan 5C, SE-22354 Lund (SE). LANDH, Thomas [SE/SE]; Skyattelinjen 195, SE-22649 Lund (SE).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
  - KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MICROEMULSIONS AND ITS USE FOR PREVENTING AIRWAY DISEASES

(57) Abstract: The invention relates to novel microemulsions comprising a non-polar lipid, at least one polar solvent, a surfactant, and a polar lipid. A microemulsion of these ingredients provides an environment that substantially encloses airborne particles, and it can be used for entrapping such particles. The inventive microemulsions are especially adapted for the prevention of symptoms in mammals, which are indirectly or directly caused by airborne particles. The invention further provides compositions comprising such microemulsions and methods of treatment comprising administering the same.



